S/019/60/000/024/004/123 A156/A027

AUTHORS: Davydov, A.B., and Shuralev, V.I.

TITLE: A Device for the Regulation of Cold-Conductivity of Turbodetanders

PERIODICAL: Byulleten' izobreteniy, 1960, No. 24, p. 17

TEXT: Class 17a, 5. No. 134274 (671864/28 of May 30, 1960). 1. The regulation of cold-conductivity is achieved by this device by varying the smount of gas used. For the purpose of diminishing the efficiency factor to a minimum when switching to random operational conditions, the nozzle guide apparatus of this new model is provided with a movable jaw that alters its axial dimension, which has grooves, corresponding to the configuration of blades, installed in the casing on a capping, so that it ensures axial movement with a minimal gap. 2. In this variant there is a worm transmission, intended for smooth regulation of the amount of working gas, the screw of which is rotated by a flywheel, whereas the wheel put on a fixed threaded have is axially displaced during the rotation, with the displacement trans-

A STATE OF THE PROPERTY OF STATE OF STA

S/019/60/000/024/004/123 A156/A027

A Device for the Regulation of Cold-Conductivity of Turbodetanders

ferred to the jaw. 3. In order to prevent gas from flowing over from the high-pressure area into the low-pressure area through the "covered jaw-housing" communication, this variant is provided with a movable elastic annular diaphragm tightly attached to the housing and to the jaw.

Card 2/2

\$/282/63/000/001/007/011 A059/A126

AUTHOR:

Davydov, A.B.

TITLE:

The turbine expansion engine THP-15 (TDR-15) for the devices

ВНИИКИМАШ БР-5 (VNIIKIMASh BR-5)

PERIODICAL: Referativnyy zhurnal, otdel'nyy vypusk, 47. Khimicheskoye i kholodil'noye mashinostroyeniye, no. 1, 1963, 49, abstract 1.47.318 (Tr. Vses. n.-i. in-ta kislorodn. mashinostr., no. 4, 1961, 26 - 37)

TEXT:

A description of the design of a turbine expansion engine is given.

The layout of the test stand and test results are presented.

[Abstracter's note: Complete translation]

Card 1/1

s/058/61/000/010/042/100 A001/A101

AUTHOR:

Davydov, A.B.

TITLE:

The shape of curves of resonance paramagnetic rotation in hydrated salts

PERIODICAL: Referativnyy zhurnal. Fizika, no.10, 1961, 162, abstract 10 7351 (V sb. "Paramagnith. rezonans", Kazan', Kazansk. un-t, 1960, 153-156)

The author studied resonance paramagnetic rotation by the method of TEXT: turnstile bridge. The shape of resonance paramagnetic rotation curves was investigated in hydrated sulfates of bivalent Mn. With increasing amount of crystallization water in the salts, the curve shape changes from the Lorentz to Gauss shape. A relation is considered between the width Δ H of this curve and the lattice constant a.

L. Sorokina

[Abstracter's note: Complete translation]

Card 1/1

YEPIFANOVA, V.I.; doktor tekhn. nauk; DAVYDOV, A.B., kand. tekhn. nauk

Some results of the studies of turbine expansion engines. Khim.
i neft. mashinostr. no.6212-15 D'64 (MIRA 1882)

DAVYDOV, A.B., hand. tekhn. nauk; KARPENKO, A.S., inzh.

Lengthening the life of the blading of centripetal inchespenders.

Trudy VNIIKIMASH no.8:99-107 164.

(MIRA 17::0)

2h067 \$/064/61/000/005/001/003 B110/B229

15.1130

Davydov, A. B., Ivanova, Z. G.

TITLE:

AUTHORS:

Formation of inorganic elemental-organic structures in glue

compositions with application of asbestos

PERIODICAL: Khimicheskaya promyshlennost, no. 5, 1961, 44 - 48

TEXT: In order to improve the mechanical properties, resistance to heat, water, oil, and the coefficient of thermal expansion of adhesives, various fillers are used. The purpose of the present work was to clarify the reaction mechanism between organosilicon and phenol formaldehyde resins and the fillers, and the influence of quantity and properties of the latter on the properties of binding agents. The influence of the fillers on the bonding strength was investigated in overlapping steel samples glued together, which had previously been degreased and sandblast-cleaned. After applying a thin layer of glue to the plates, evacuation and pressing for 2 hr at 250°C by means of a lever press was carried out (7 kg/cm²) in order to evaporate the solvent. Organosilicon resin with methyl and phenyl groups were investigated with silicon (resin A), or only with phenyl radi-

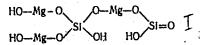
Card 1/9

24067 \$/064/61/000/005/001/003 B110/B229

Formation of inorganic ...

cals (resin B). In order to increase the bonding strength, phenol formal-dehyde resins were added to both. Table 1 shows the results. Composition 1 consisted of (in parts by weight): resin A=1. Phenol formaldehyde resin = 1. Hardener = 0.15. Composition II: resin B=1. Phenol formaldehyde resin = 3. Hardener = 0.45. Addition of fillers caused, apart from decrease of strength, technical difficulties of application as a result of inhomogeneity. Bonding strength, however, resistance to heat, thermal stability, and thermal impact resistance of the resins were increased by asbestos. Chrysolite asbestos, much used in industry, does not change its strength as inorganic polymer of the following structure:

THE WAR AND THE TOTAL AND THE TREE OF THE



even if heated intensely (1/2 hr at 540° C, a few minutes at 2760°C). The specific surface of dried asbestos amounts to about $2 \cdot 10^{5}$ cm²/g. The positive and negative ions formed on its surface:

Card 2/9

Formation of inorganic ...

(a = cation, b = anion) act as "active centers" in resin polymerization. The authors investigated the polymerization of resin A with addition of finely ground and sifted asbestos of the type M-5-60 (M-5-60). With growing asbestos content the rate of polymerization was increased. Thermchemical investigations suggested a reaction of orthosilic acid residues with metal hydroxides (Ca, Cr, Cu, Al, Fe). Thus, reactions with organosilicon resins are possible at the "active centers", above all in the presence of chain fragments. These can arise at a raised temperature, accompanied by separation of methyl and phenyl radicals and fracture of the Si-O-Si bond of polysiloxane. This was pointed out by K. A. Andrianov, M. V. Sobolevskiy (Ref. 10: Vysokomolekulyarnyye kremniyorganicheskiye scyedineniya, Oborongiz, 1949). In order to examine the possibility of binding with the functional alkoxy and acetoxy groups of resin, tetraethoxy Card 3/9

24067 S/064/61/000/005/001/003 B110/B229

Formation of inorganic ...

and methyl phenyl diacetoxy silanes were added to asbestos. Asbestos was annealed for 24 hr at 450°C and heated for 1.5 hr at 150°C in vacuo. After filling of the flask with nitrogen, silane was introduced by vacuum distillation. With the heating of the asbestos for 2-4 hr with tetraethoxy silane (150°C), and methyl phenyl diacetoxy silane (180°C), it may be assumed that the following reaction went on:

$$Ac6-(OH)_{x} + Si(OC_{2}H_{3})_{4} \longrightarrow$$

$$- \times C_{2}H_{3}OH + Ac6-(Q-Si(OC_{2}H_{3})_{4-x})_{x}$$

$$CH_{3}$$

$$Ac6-(OH)_{x} + Si(OOCCH_{3})_{5} \longrightarrow$$

$$C_{6}H_{5}$$

$$- \times CH_{3}COOH + Ac6- O-Si-(OOCCH_{3})_{5-x}$$

$$C_{6}H_{5}$$

(Acf = asbestos)

Card 4/9

24067

S/064/61/000/005/001/003 B110/B229

Formation of inorganic ...

Thus, a formation of inorganic elemental-organic structures may be assumed, which improve the thermomechanical properties (e.g., resistance to heat) of the hardened binding agents. In order to determine the optimum quantity of asbestos in binding agents, asbestos was first ground by ball mills, sifted by sieve no. 100, and added to the resin. The best ratio is 0.75. With regard to fiber length, content of impurities, and dust there are various types of asbestos (Table 4). The tests were carried out with resin A and an asbestos/resin ratio = 0.75. To investigate the optimum compounds of resin and asbestos, the former was treated differently: reduction to small pieces in an aqueous medium (I), exposure to acid Hand alkaline solutions (III), and different solvents (IV). For (I) a special container with a perpendicular axis (extension of the electric motor shaft) with four blade knives was used for an intensive fragmentation of the fibers. For (II) the asbestos was added to the graduated solutions in beakers, sucked off and dried after decantation and rinsing. Table 5 shows the results. In (I) the asbestos fiber was heavily destroyed. In (II) the structure of the asbestos was destroyed by substitution. In (III) a gel-like silicic acid was first produced, which, together with the one to be found in the asbestos (2.1%), favors a chemisorption of the resin.

Card 5/9

2\1067 \$/064/61/000/005/001/003 B110/B229

Formation of inorganic...

With a prolonged alkali treatment SiO₂ is dissolved whereby chemisorption is reduced. Degreasing by acetone (IV) increases the bonding strength slightly at room temperature but not at 425°C. There are 1 figure, 5 tables, and 10 references: 7 Soviet-bloc and 3 non-Soviet-bloc. The three references to English-language publications read as follows: Ref. 2: Modern Plastics, 35, No. 10, 105, 218 (1958); Ref. 3: Plastics World, 16, No. 3, 7 (1958); Ref. 4: British Plastics, 31, No. 11, 452, 495 (1959).

Table 1. Influence of fillers on the strength of glue compounds. Legend: 1) Filler; 2) quantity, parts by weight; 3) shear strength limit in kg/cm² for; 4) composition I; 5) without filler; 6) potash mica; 7) Al + fused alumina; 8) asbestos M-5-60; 9) composition II; 10) the laminae were not glued together.

Card 6/9

DAVYDOV, A.B. inzh.; YEPIFANOVA, V.I., kand. tekhn. nauk

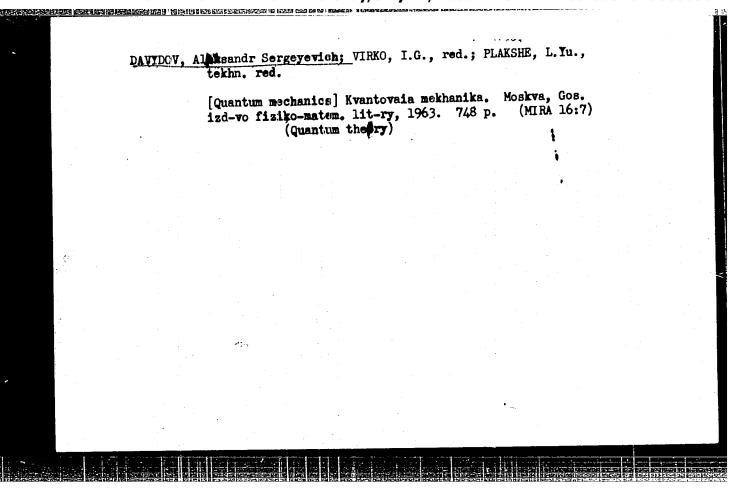
Evaluating the efficiency of turbo expanders in large plants for the production of gaseous oxygen. Trudy VNIIKIMASH no.5:3-29 '62. (MIRA 18:3)

DAVYDOV, A.B., inzh.; YEPIFANOVA, V.I., kand.tekhn.nauk

Comparing various methods for the control of the refrigerating capacity of turboexpanders in low pressure oxygen plants.

Khim.mash. no.4:13-16 Jl-Ag '62. (MIRA 15:7)

(Oxygen) (Refrigeration and refrigerating machinery)



SOLODOVNIK, V.D.; DAVYDOV, A.B.; IVANOVA, Z.G.; MINDLIN, Ya.I.; LEZMOV, N.S.

Properties of and the possibility of using organoborosilicon polymers as components of heat-resistant adhesives. Plast. massy no.3:39-42 '63. (MIRA 16:4)

(Adhesives) (Silicon organic compounds)
(Boron organic compounds)

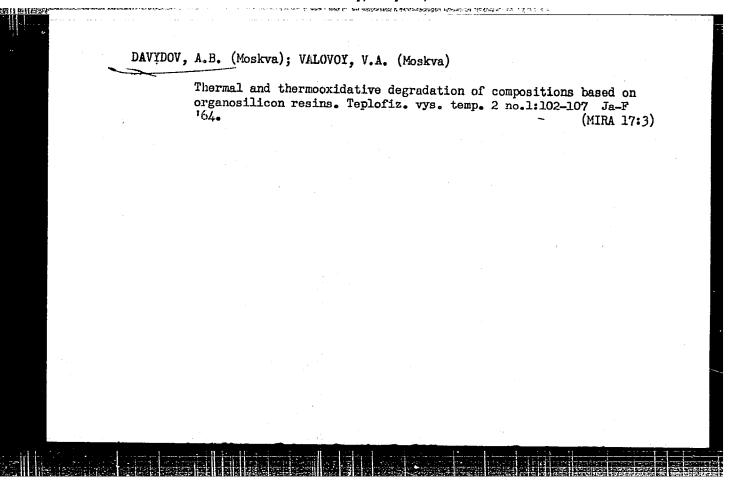
MANY MAY 12 Ney

HEAT-RESISTANT ORGANOSILICON ADHESIVES BK-2 AND BK-6 (USSR)

Ivanova, Z. G., and A. B. Davidov. Plasticheskiye massy, no. 4, 1963, 37-39. S/191/63/000/004/008/015

A description is given of a study of the physical and mechanical properties of adhesive joints formed by the asbestos-filled adhesives BK-2 and BK-6, based on organosilican and modified-organosilicon resins, respectively. The tests were conducted with such materials as steels 30XFCA and 3N 654, Ti alloy ET 4, glass-reinforded plastic BOT, and steel 30XFCA plus graphite. The highest bond strength is attained by joining the parts at 270°C for 3 hrs. The joints have a shear strength of 15 to 30 kg/cm² at 1000°C and withstand temperatures of 350 to 425°C and for a short time, even of 1000°C. Joints formed by BK-2 can withstand service for several, hours at 1000°C under a shear stress of 10 kg/cm², and joints with BK-6, 1000 hrs at room temperature under a shear stress of 108 kg/cm². At 425°C the joints withstand 3 106 cycles of a 35-kg/cm² load and 15 to 20 (BK-2) or 5 (BK-6) thermal cycles from -60 to 425°C). The joints resist trepical conditions, liquid hydrocarbons (5 days), and water (15 days). The failure of bonded nonmetallic materials at high temperatures is cohesive. Joints formed by BK-6 exhibit at room temperature properties superior to those with BI-2. [BAO]

Card 1/1.

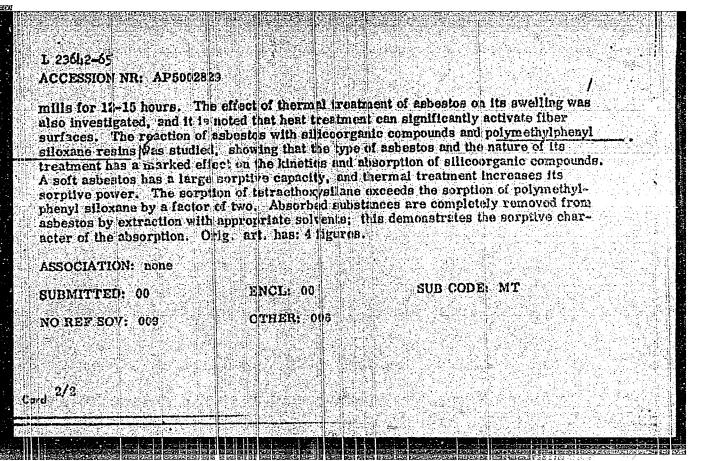


DAVYDOV, A.B.; TSIDIL'KOVSKIY, I.M.

Study of magnetoresistance at superhigh frequencies. Prib. i tekh. eksp. 9 no.38172-174 My-Je '64 (MIRA 1881)

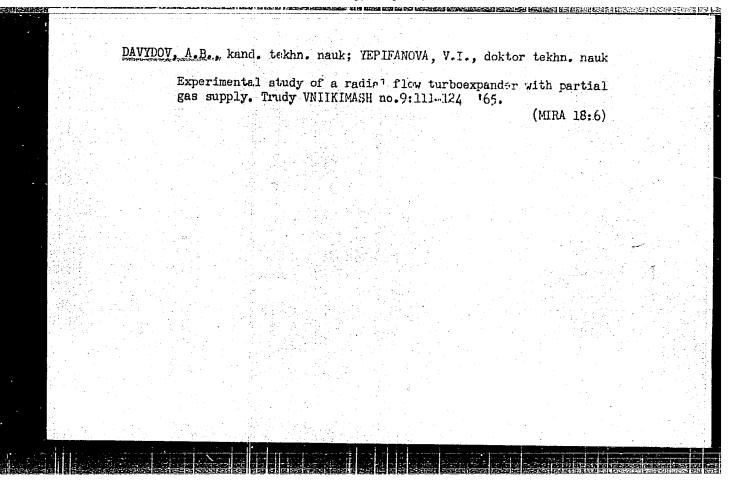
1. Institut fiziki metallov AN SSSR.

<u>1 2350,2-15</u> Eft(n)/EFP(0)/EFP(1)/T	
AUTHOR Davydov, A. B. : Ivanova, Z. C	·····································
	lon properties of asbustos used as a filler in
SOURCE: Plasticheskiye massy, No. 1, TOPIC TAGS: asbestos, plastic filler, cl	
swelling swelling	polymer swelling, asbestus settling, asbestos
anical treatment on the state of the filler anical treatment on the state of the filler a settling volume of asbestos samples in wallected to mechanical treatment in ball and data show that the settling volume reaches asbestos has been kept in water for 5-10 bable effect on the volume of asbestos callo	tve processes in asbestos and the effect of the studied. The effect of preliminary mechanistics was first determined, along with the tipr. The swelling kinetics of an asbestos subvibration mills are depicted graphically. The maximum in the majority of cases after the cours. Preliminary treatment also has a notice-lidal settling; the dependence of the maximum
that the set ling volume reaches a maximu	oulverizing time is shown. These data prove maximum oulverizing time is shown. These data prove m during the pulverizing of asbestos in ball

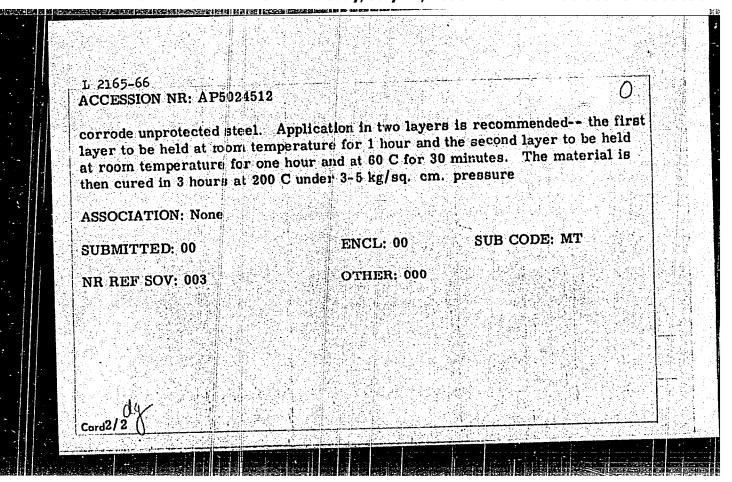


Pc-4/Pr-4/Ps-4 RM/WW EPF(c)/EPR/EWF(j)/ENT(m)/I/ENP(v) 8/0191/65/000/004/0072/0074 ACCESSION NR: AP5009327 AUTHORS: Davydov, A. B.; Ivanova, Z. G. TITIE: Means of lowering the hardening temperature of heat resistant organosilics cements SOURCE: Plasticheskiye massy, no. 4, 1965, 72-74 TOPIC TAGS: cement, glue welding, adhesion, adhesive bonding, adhesive material/ ZOKhGSA steel, VK2 cement, 588 cement ABSTRACT: Yithe effect of various catalytic additives on the hardening properties of cement-glue compositions was studied in relation to hardening temperature. The catalytic agents (tetraethoysilane (TES), potassium acetate, product "18," glass silicate, and others) were lested for their offect on the deflection strength of ZOKNGSA steel at room temperature and at 425%. The parent cement compositions tested were of types VK-2 and "588." Strength and hardening data for these cements are given in Fig. 1 on the inclusive. Tests were executed as follows: the catalysts were added to the parent contents in measured quantities, after which the mixtures were applied to a steel joint and hardened at a controlled temperature. The joint strength was then tested at rous temperature and at 4250, after which the observed strength value was plotted versus the percentage of catalyst used. Additional tests

ACCESSION NR: AP5009327				
were performed to study the glass on the hardening (at observed that the addition effectively lowers the hard 5 figures.	2000 character of 11 (dry-weig	istics of o	rganosilica ret nd glass to don	ine. It was position "586"
ASSOCIATION: none				
SURATUTED: CO	ENCL	01		SUB CODE: MP
NO REF SOV: 003	OTHER	: 001		
Card 2/3				



L 2165-66 EWT(m)/EPF(c)/EWP(v)/EWP(j)/T WW/DJ/WE/RM UR/0191/65/000/010/0056/0057 6/ ACCESSION NR: AP5024512 678.842:668.395.6 Davydov, A. B. N.S. AUTHOR: Ivanova, Z. G.; TITLE: Thermostability of adhesive VK-8 having increased strength and elasticity SOURCE: Plasticheskiye massy, no. 10, 1965, 56-57 TOPIC TAGS: heat resistance, heat property, adhesive, adhesion, shear stress, impact stress, atmospheric humidity ABSTRACT: The thermomechanical properties of VK-8 were examined to determine its suitability as an adhesive the shear strength compares favorably with that of adhesives VK-2 and VS-350 up to 350 C, but exceeds that of VS-350 and is less than that of VK-2 at higher temperatures to 1000 C. The cleavage and impact strengths of VK-8 are ar superior to those of the other two adhesives. VK-8 may be used for bonding metallic and nonmetallic materials. It is resistant to mineral oil MK-8, fuel T-1, and gasclene. Its strength remained unchanged under tropical conditions for one month and is affected little by water. It does not **Card** 1/2

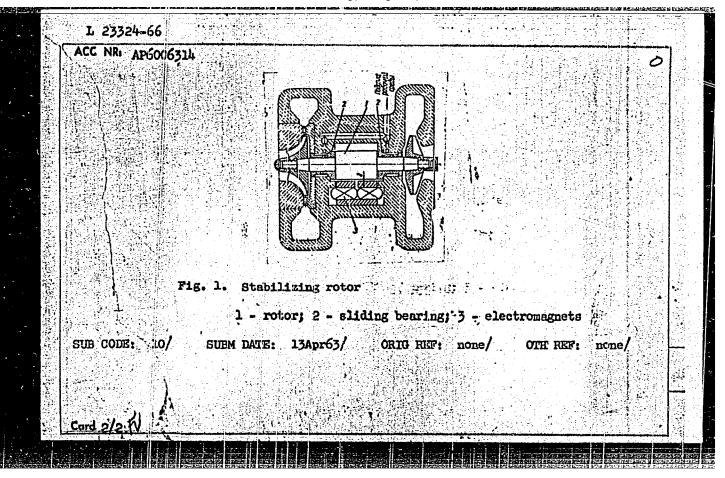


DAVYDOV, A.B., kand.tekhn.nauk; PROKHOROV, V.I., inzh.

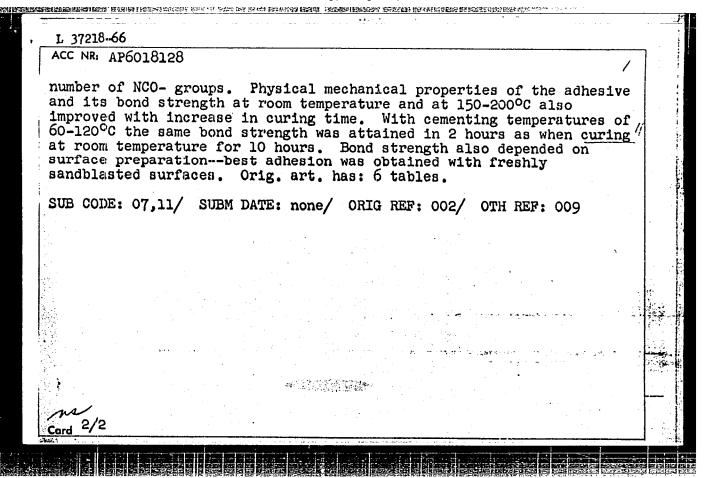
Air-cooling machines in the air-conditioning systems.
Vod.i san.tekh.no.4:26-29 Ap *65.

(MIRA 19:1)

ACC NR. AP6006314	. (N)	SOURCE COME.	WP(k)/ETG(b)-6 UR/0413/66/000/	202/07 44/6
ALTOUOD. Dog.			VIV V412/00/000/	w2/0031/003 <u>1</u>
AUTHOR: Davydov,	A. I.			
ORG: none				1
TITLE: Device for No. 177904	stabilizing th	e rotors of high	leanerd freehomosts	.
110° T(1304			- place a far bowater	ruca. Crass Itt.
SOURCE: Izobreten	in mount			
SOURCE: Izobreten	ras bromantal	Lye Obraztsy, (ovarnyje znaki, r	10. 2, 1966, 31
TOPIC TAGS: turbi	ne, turbine rote	Or. Stabilizatio		
ABSTRACT; An Auth rotors of high-spe	or Certificate 1	as been issued	for a device for	stabilizing the
increased by ellect.	romanmata member	3	rarna near ruga !	Stability is
increased by elect effect on the roto	r (Bee Fig. 1).	Circle and has	s, which have a u	nidirectional
		ATT 00 1168	· Ligure.	[10]
			전 텔레 공항 교육(급) 대 명하다 관합 교육(급)	
	스토리 나는 얼마 시험을 되었다.			
	1 19일 선생님 그 경기를 받는 것이다.	동생 또 하는 기회들은 그들이 그렇게 하는		
ard 1/2		VDC: 621.165.	251_752.3	



L 37218-66 EWP(j)/EWT(m)/T/EWP(v) IJP(c) RM/WW/JWD ACC NR: AP6018128 SOURCE CODE: UR/0191/66/000/006/0046/0048 AUTHOR: Zalikin, A. A.; Davydov, A. B.; Strepikheyev, Yu. A.; Ivanova, Z.G. ORG: none TITLE: Use of polycyclic polyisocyanates as components in cold curing adhesive compositions SOURCE: Plasticheskiye massy, no. 6, 1966, 46-48 TOPIC TAGS: isocyanate resin, polyester plastic, adhesive, adhesion, heat resistance ABSTRACT: The possibility of using polycyclic polyisocyanates (A) in adhesives that will cure without heat to attain improved heat stability was investigated. A, made of aniline, o-toluidine, or o-chloroaniline with formaldehyde, were used as 50% acetone or toluylene diisocyanate solutions. To prepare the adhesive various polyesters were added, also as 50% acetone solutions or as powders. The components were mixed, catalyzed with a 5% aqueous potassium methacrylate solution, mixed again and spread onto steel or duralumin surfaces 30-40 minutes later. Bond strength and heat stability depended on the composition of the polyisocyanate, increasing with increase in its molecular weight and Card 1/2 VDC: 678,664,668,395,6



BOGUSLAVSKIY, Viktor Fetrovich, kand. tekhm. nauk; DAVYDOV, Andrey

Dmitriyevich; KRRUPPA, Ivan Fedorovich; PETROV, I.F., red.;

MEL'NIKOV, V.I., tekhm. red.

[Irrigation of vegetable crops in suburban zones] Oroshenie ovoshchnykh kul'tur vprigorodnoi zone. Omsk, Omskoe knizhnoe izd-vo, 1960.

67 p. (Wegetables—Irrigation)

DAVYDOV, Aleksandr Davidovich; MOISEYEV, P.P., otv. red.; POLTAVSKAYA, S.V., red. izd-va; MIKHLINA, L.T., tekhn. red.

[Development of capitalist relations in the agriculture of Afghenistan] Razvitie kapitalisticheskikh otnoshenii v zemledelii Afganistana. Moskva, Izd-vo vostochnoi lit-ry, 1962.

[MIRA 15:3)

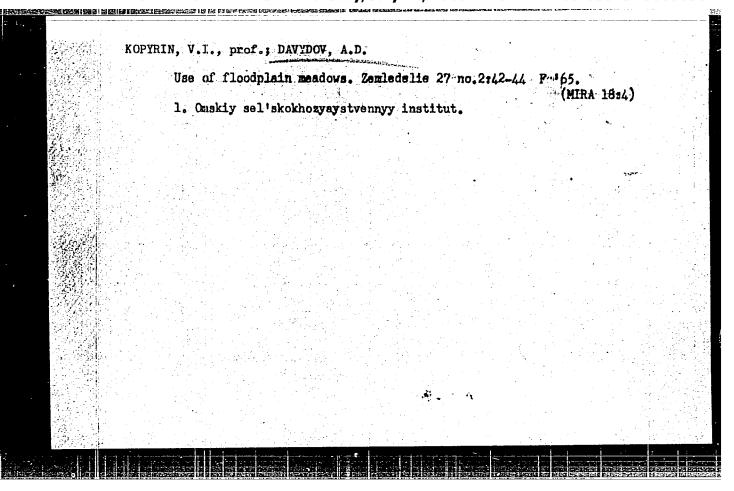
(Afghanistan—Agriculture—Economic aspects)

DAVYDOV, A. D.

Dissertation defended for the degree of Candidate of Economic Sciences at the Insitute of the Peoples of Asia.

"Development of Capitalist Relations in the Agriculture of Afganistan."

Vestnik Akad. Nauk, No. 4, 1963, pp 119-145



MANAGEMENT OF THE STATE OF THE

DAVYDOV, A.F. Notor activity of reindeer in relation to grazing conditions. Opyt izuch.reg.fiziol.funk. 4:21-28 '58. (MIRA 12:4)

1. Laboratoriya ekologicheskoy fiziologii (maveduyushchiy - prof.
A.D. Slonim) Instituta fiziologii imeni I.P. Pavlova AN SSST i Otdel
ghivotnovodstva (zaveduyushchiy - S.P. Popov) Instituta sel'skogo
khozyaystva Kraynego Severa.

(REINDEER) (GRAZING)

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00050982

percenting of the second	Investigation of motor activity in farm animals. Piziol. zhur. 44 no.3:264-265 Mr '58. (MIRA 11:4)
	 Institut sel'skogo khozyaystva Kraynego Severa, Leningrad. (MUSCIES, physiology motor activity in farm animals, measurement (Rus) (ANIMALS, farm animals, measurement of motor activity (Rus)
·	

DAVYDOV, A. F., Cand Biol Sci (diss) -- 'An investigation of the motor activity and pasture conditions of northern deer". Leningrad, 1960. 19 pp (Acad Sci USSR, Inst of Physiology im I. P. Pavlov), 250 copies (KL, No 12, 1960, 126)

DAVYDOV, A.F.

Regimen of muscular activity in reindeer during the procurement of food from under the ice. Opyt izuch. reg. fiziol. funk. 6: 35-40 163. (MIRA 17:3)

Electrophysiological study of various muscles in hedgehogs. Ibid.:41-48

1. Laboratoriya ekologicheskoy fiziologii (zav. - prof. A.D. Instituta fiziologii imeni Pavlova AN \$SSR i Institut sel'skogo khozyaystva Kraynego severa Ministers a sel'skogo khozyaystva RSFSR (d.r. N.O.D'yachenko).

OL'NYANSKAYA, R.P.; DAVYDOV, A.F.; ROMANOVSKAYA, G.D.

Materials on the physiology of acclimatization of sheep in the mountains of the Northern Caucasus. Opyt izuch. reg. fiziol. funk. 6:78-84 *63 (MIRA 17:3)

1. Gruppa fiziologii gazoobmena i teploobmena i laboratoriya ekologicheskoy fiziologii (zav. - prof. A.D. Slonim) Instituta fiziologii imeni Pavlova AN SSSR.

IVANOV, K.P.; DAVYDOV, A.F.

Physiological mechanism of chemical thermoregulation in bats. Opyt. izuch. reg. fiziol. funk. 6:179-183 '63 (MIRA 17:3)

1. Laboratoriya ekologicheskoy fiziologii (zav. - prof. A.D. Slonim) Instituta fiziologii imeni I.P.Pavlova AN SSSR.

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00050982

L 22339-66 ACC NR: AP6004834 SOURCE CODE: UR/0239/65/051/010/1238/1243 AUTHOR: Davydov, A. F.; Sklyarchik, Ye. L. ORG: Ecological Physiology Laboratory of the Physiology Institute im. I. P. Pavlov AN SSSR, Leningrad (Laboratoriya ekologicheskoy fiziologii Instituta fiziologii AN SSSR/ TITLE: Regulation of respiration and gas exchange in young Greenland seals in relation to underwater submersion SOURCE: Fiziologicheskiy zhurnal SSSR, v. 51, no. 10, 1965, 1238-1243 TOPIC TAGS: experiment animal, animal physiology, biologic respiration ABSTRACT: Dependence of oxygen deficit of seals on duration of the underwater submersion period, and also the period required to restore oxygen consumption to its initial level, were investigated. Experiments were conducted on 12 young Greenland seals ages 2 days to 2 mon aboard the icebreaker "Yermak" in the White Sea in Merch 1963 and experiments were continued on 3 of the animals at a Moscow laboratory. Underwater submersion of seals was staged in a tank filled with sea water warmed to temperatures which would not cause any gas exchange shifts higher than 5 to 10% over a 3 to 40 min period. Water temperature for the youngest Card 1/2 UDC: 612.614.41+612.27

L 22339-66

ACC NR: AP6004834.

)

group of seals was 25 to 26°, temperature for slightly older seals was 17 to 18°, and the temperature for the oldest seals was 11 to 12°. The seals were allowed to rest on their backs on the water for 10 to 15 min prior to submersion. The seals were lowered into the tank on a special stand in which the front and back flippers and head were free to move. Respiration and ges exchange were investigated according to Douglas and Holden's methods (not described). The youngest seals were submerged for 1 and 3 minute periods and older seals were submerged for periods up to 10 min. The oxygen demand of the youngest seals was reduced (51 to 83%) with 1 and 3 minutes of submersion, while that of the older seals was increased (108 to 160%) for corresponding periods. The oxygen demand of older seals was sharply reduced (43 to 66%) with prolonged submersion of 5 to 10 minutes. Maximum compensation (70 to 80%) for oxygen deficit occured during the first minute for all seal age groups regardless of submersion period duration, and the oxygen consumption level was completely restored within the first 3 minutes. However, the level of carbon dioxide given off by the seals was restored to normal in only about 10 minutes. Increased lung ventilation due to increased respiration frequency and respiration volume appears to be the main mechanism responsible for rapid supply of oxygen in seals following submersion. Orig. art. has: none.

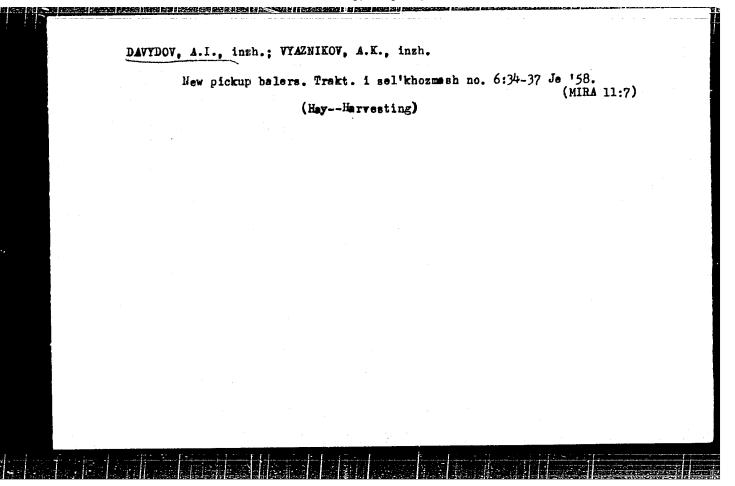
SUB CODE: 06/ SUBM DATE: 05Jun64/ ORIG REF: 004/ OTH REF: 006

Card 2/2dds

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00050982

DAVYDOV, A. G. - "Burning out left-over herbaceous vegetation as a method of Improving moadous," Trudy Euryat-Mongol. zorvet, in-ta, Issue 4, 1942, p. 116-24 - Bibliog: 9 items.

So: U-3850, 16 June 53, (Letopis 'Zhurnal 'nykh Statey, No. 5, 1949).

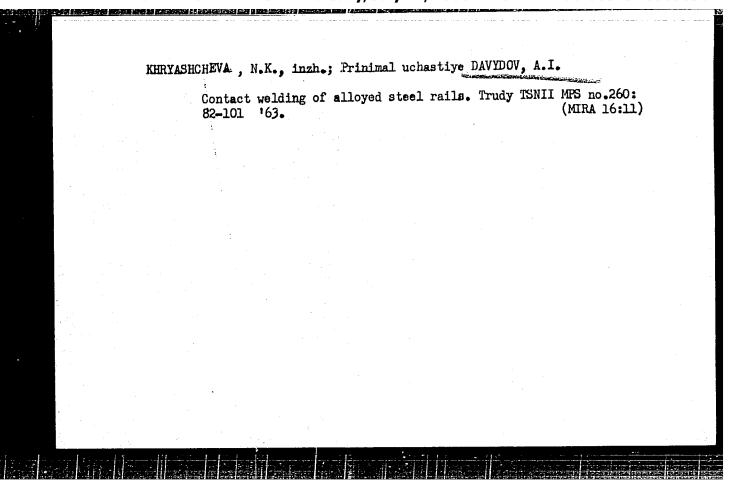


"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00050982

Osnovy matematicheskoy teorii tkatskikh perepleteniy: Nauch. - issled trudy (Kostrom. tekstil. in-t), vyp. 8, 1949, s. 31-52.

DAVYDOV, Aleksey Iosifovich; BODROVA, A., red.; PALAMARCHUK, T., red.; LEV-CHENKO, C., tekim. red.

[The growth and rapid development of the socialist city of Kiev]
Roste i kvitne sotsialistychnyi Kyiv. Kyiv, Derah. vyd-vo polit.
lit-ry URSR, 1961. 133 p. (MIRA 14:8)
(Kiev-Description) (Kiev-Economic conditions)



[Problems in algebra and elementary functions] Sbornik zadach po algebre i elementarnym funktsiiam. Posobie dlia uchitel'skikh i pedagogicheskikh institutov. Moskva, Gos.uchebno-pedagog. izd-vo, 1955. 247 p. (MIRA 16:12) (Algebra—Problems, exercises, etc.) (Functions)

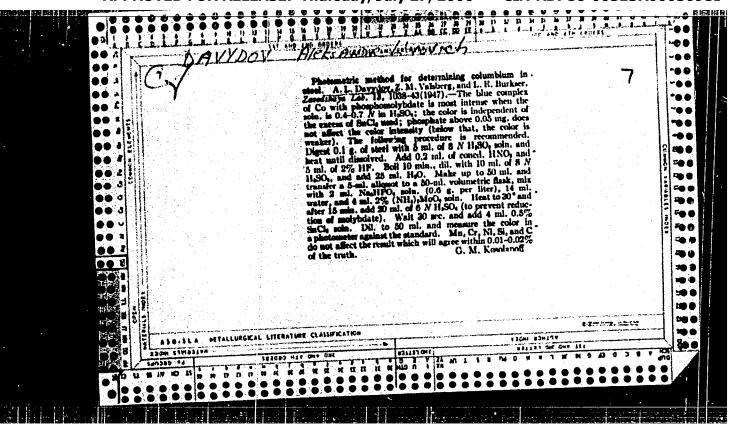
DAYYDOV, Aleksandr Konstantinovich; NEMTSOVA, L.G., red.; MAKHOVA,

N.H., tekhmared.

[Collected problems in algebra and elementary functions; for
pedagogical institutes] Sbornik zadach po algebra i elementaraym funktaiiam; dlia pedagogicheskikh institutov. Ind.2..,
perer. Moskva, Gos.uchebno-pedagog.izd-vo M-va prosv.RSFSR,
1959. 151 p. (NIRA 12:10)

(Algebra--Problems, exercises, etc.) (Functions)

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00050982



DAVYDOV, A.M.

State of electric ocular sensibility in different periods of hypertension. Klin.med., Moskva 28 no.12:58-60 Dec 50.(CIML 20:5)

BERNANDE MANAGEMENT BEFORESTER EN EL 2003

1. Of the Department for the Diagnosis, Special Pathology, and Therapy of Internal Diseases (Head--Prof.M.A.Volin), Therapeutic Faculty of Second Moscow Medical Institute imeni I.V.Stalin.

DAVYDOV, A.M.

PROPERTY OF THE PARTY OF THE PA

Vestibular electrostimulation in various stages of hypertension. Ter. arkh., Moskva 24 no. 3:22-30 May-June 1952. (CIML 22:4)

1. Candidate Medical Sciences. 2. Of the Department of Diagnosis, Special Pathology, and Therapy of Internal Diseases (Head -- Prof. M. A. Volin), Therapeutic Faculty of Second Moscow Medical Institute imeni I. V. Stalin.

DAVYDOV, A. M. Doc Med Sci -- (diss) "Tonus and vascular permeability during hypertonia." Mos, 1957. 17 pp 20 cm.

(The First Moscow Order of Lenin Medical Inst im I.M. Sechenov), 200 copies

(KL, 21-57, 105)

-90-

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00050982

USSR / Cultivated Plants. General Problems.

M-1

Abs Jour

: Ref Zhur - Biologiya, No 13, 1958, No. 58492

Author

: Davydov. A. M.

Inst

: Not given

Title

: The Successful Development of Crop Rotations in UzbekSSR

Orig Pub

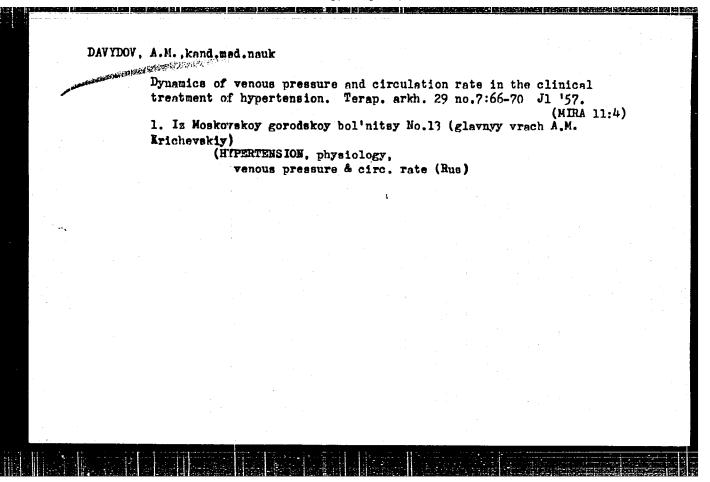
: Sots. s.-kh. Uzbekistana, 1957, No 12, 63-69

Abstract

: No abstract given

Card 1/1

7



NIKOLAYEVSKIY, Ye.Ya., inzh.; EYDEL'NANT, L.B., inzh.; DAVYDOV, A.M., inzh.; SIMACHEV, L.V., red.; BATENCHUK, A.H., inzh., red.; IPATOV, P.P., inzh., red.; KRYLOV, V.A., inzh., red.; PELESHUK, M.I., inzh., red.; PITERSKOV, N.I., red.; SHUBOV, L.B., red.

[Instructions for industrial safety measures in the assembly of technological equipment and piping] Instruktivnye ukazanila po tekhnike bezopasnosti pri montazhe tekhnologicheskogo oborudovanila i truboprovodov. Izd.2., perer. i dop. Moskva, TSentr. biurc tekhnainformatsii, 1959. 160 p. (MIRA 13:6)

1. Russia (1917- R.S.F.S.R.) Ministerstvo stroitel stva. Glavmetallurgmontash. 2. Glavnyy inzhener Glavmetallurgmontazha Ministerstva stroitel stva RSFSR (for Simachev). (Industrial safety)

Temporal pressure in the clinical aspects of hypertension. Zdrav.Helor. 5 no.6:22-25 Je '59. (MIRA 12:9) 1. Iz fakul'tetskoy terapevticheskoy kliniki Vitebskogo meditsinskogo instituta. (HYPERTENSION) (TEMPORAL ARTERY)

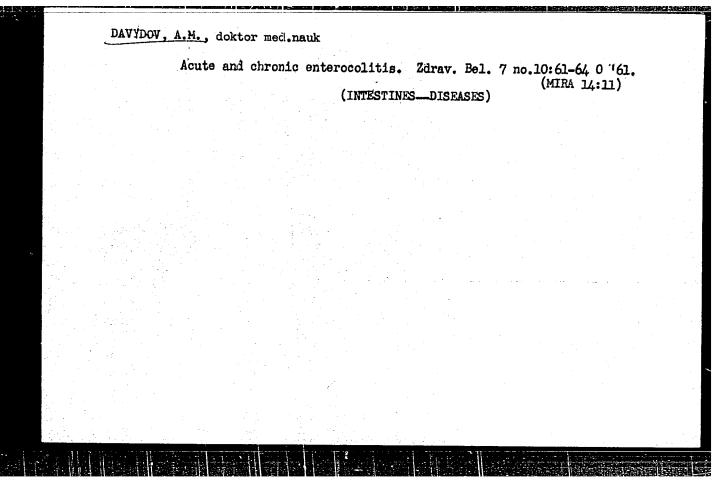
DAVYDOV, A.M., dotsent

Permeability and resistance of capillaries in hypertension. Zdrav.Belor. 5 no.8:17-18 Ag '59. (MIRA 12:10)

1. Iz kafedry fakul tetskoy terapii Vitebskogo meditsinskogo instituta.

(HYPERTENSION) (CAPILLARIES--PHROEABILITY)

Automatic switch for multiple-point tension measurements. Izm. tekh. no.1:20-22 Ja '60. (MIRA 13:5) (Electric switchgear)



S/032/62/028/001/016/017 B116/B108

AUTHORS:

Bershak, V. I., Gudimenko, A. I., Davydov, A. M.

TITLE:

Molybdenum disilicide heaters for high-temperature

laboratory furnaces

PERIODICAL: Zavodskaya laboratoriya, v. 28, no. 1, 1962, 115

TEXT: The new molybdenum disilicide heaters described here can be used at higher temperatures (characteristic temperature 1700°C) and have a much longer service life than silicon carbide heaters. Of the various heating elements that were tested, the one shown in the accompanying figure is recommended for laboratory furnaces (both for crucible and tubular furnaces). It has the following advantage over conventional heating elements: The bus bars and the cooling system of the contacts are mounted on the side surface of the furnace, which is particularly convenient if the distance between the furnace lid and the maximum-temperature zone is to be as small as possible. The heating element presented here was developed according to the authors' design at the Kombinat tverdykh splavov (Combine of Hard Alloys) in Moscow. With four Card 1/3

S/032/62/028/001/016/017
Molybdenum disilicide heaters... B116/B108

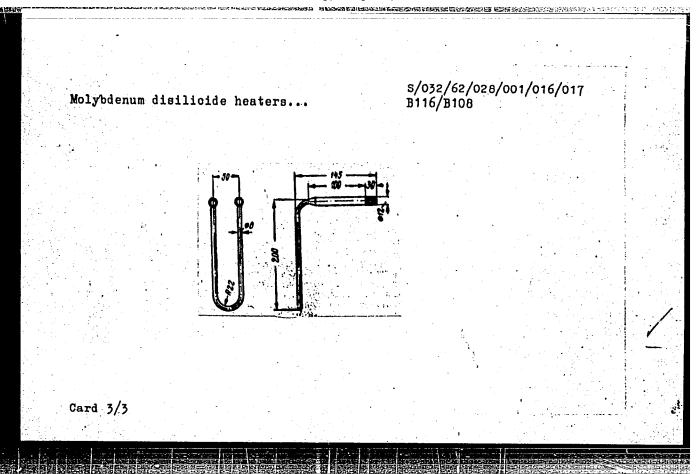
such elements connected in parallel, the amperage is 1200 a, and the voltage (at 1600°C in the center of the furnace) is 14 v. The furnace is fed by a 220-v mains supply using AOCu-10/0.5 (AOSK-10/0.5) autotransformers. A furnace with molybdenum disilicide heating elements has been in operation at the Gintsvetmet for one and a half years, and no replacement of the heating elements has yet been necessary. Compared with furnaces equipped with molybdenum or tungsten heating elements, this type is more simply designed and operates in any atmosphere except one saturated with SO₂ vapor. [Abstracter's note: Essentially complete translation.] There is 1 figure.

ASSOCIATION: Gosudarstvennyy nauchno-issledovatel'skiy institut tsvetnykh metallov (State Scientific Research Institute of Nonferrous Metals)

Fig. Molybdenum disilicide heating element. Dimensions in mm.

Card 2/3

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00050982



MAKAROV, A.F.; OBOROTOV, I.Ye.; KALYADIN, I.I.; FELENKO, L.I.; PEREPELITSA, V.R.; NECHAYEV, B.N.; DAVYDOV, A.M.; IVANOV, N.G.; CHUVAKOV, P.F.; FIL'KOV, P.V.; LAR'KIN, G.D.; SVYATKIN, V.V.; SHARIFULLIN, M.

Railroad workers address metallurgists. Put' i put.khoz. 4 no.8:14 Ag '60. (MIRA 13:8)

1. Kovylkinskaya distantsiya puti i putevaya mashinnava stantsiya No.66, stantsiya Kovylkino, Kuybyshevskoy dorogi. 2. Nachal'nik Kovylkinskoy distantsii puti (for Makarov). 3. Sekretari partbyuro, stantsiya Kovylkino, Kuybyshevskoy dorogi (for Oborotov, Nechayev). 4. Predsedatel' mestkoma, stantsiya Kovylkino, Kuybyshevskoy dorogi (for Kalyadin). 5. Sekretari Vsesoyuznogo Leninskogo kommunisticheskogo soyuza molodezhi, stantsiya Kovylkino, Kuybyshevskoy dorogi (for Felenko, Ivanov). 6. Nachal'nik putevoy mashinnoy stantsii No.66, stantsiya Kovylkino, kuybyshevskoy dorogi (for Perepelitsa). 7. Chlen mestkoma, stantsiya Kovylkino, Kuybyshevskoy dorogi (for Davydov). 8. Rukovoditeli brigad i udarniki kommunisticheskogo truda distantsii i putevoy mashinnoy stantsii No.66, stantsiy Kovylkino, Kuybyshevskoy dorogi (for Chuvakov, Fil'kov, Lar'kin, Svyatkin, Sharifullin).

(Railroads--Rails)

MAK, S.L.; TULENKOV, F.K.; SHTEYNBERG, L.B.; HERSHAK, V.I.; SERGEYEV, S. I.;
GUDIMENKO, A.I.; DAVYDOV, A.M.

Exchange of experience. Zav.lab. 28 no.1:114-115 '62.

(MIRA 15:2)

1. Odesskiy politekhnicheskiy institut i Odesskiy zavod stal'nykh kanatov (for Mak, Tulenkov, Shteynberg). 2. Gosudarstvenmyy nauchno-issledovatel'skiy institut tsvetnykh metallov (for Bershak, Gudimenko, Davydov).

(Testing machines)

GUL'DIN, I.T.; BUZHINSKAYA, A.V.; DAVIDOV, A.M.

Simultaneous recording of thermograms and polutharms of electric conductance of a melt of thermograms and polutharms of electric conductance of a melt of thermograms and polutharms of electric conductance of a melt of thermograms and polutharms of electric conductance of a melt of thermograms and polutharms of electric conductance of a melt of thermograms and polutharms of electric conductance of a melt of thermograms and polutharms of electric conductance of a melt of thermograms and polutharms of electric conductance of a melt of thermograms and polutharms of electric conductance of a melt of thermograms and polutharms of electric conductance of a melt of thermograms and polutharms of electric conductance of the melting of the conductance of the conductance of the melting of the conductance of the conducta

Geology and prospects for finding oil and gas on the southern structures of southeastern Turkmenia. Trudy VNIGNI no.35:121-135 (61. (MIRA 16:7) (Turkmenistan—Petroleum geology) (Turkmenistan—Gas, Natural—Geology)

S/081/61/000/020/070/089 B126/B147

AUTHORS:

Morina, I. N., Vinogradova, N. P., <u>Davydov</u>, A. N., Kornilova, N. S., Konetspol'skiy, L. I., <u>Listopadov</u>, M. V., Starostina, Ye. S., Chernysheva, R. K., Shainskiy, Ya. B.

TITLE:

Separation of acetylene from pyrolysis gases, using

dimethyl formamide as absorbent

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 20, 1961, 317, abstract 2019 (Sb. "Sintez monomerov dlya proiz-va sintetich.

kauchuka". L., Goskhimizdat, 1960, 207-215)

TEXT: A scheme for separating concentrated C2H2 from gases produced by high-temperature pyrolysis of hydrocarbons, using dimethyl formamide as absorbent, was developed and checked on a test unit. The optimum conditions for the process were established which ensure a virtually complete extraction of C_2H_2 from pyrolysis gases and a yield of concentrate containing 98 to 99 % by volume of C_2H_2 . [Abstracter's note: Complete

Card 1/1

translation.]

DAVYdoV, A.N.

86-8-12/22

AUTHOR:

Davydov, A.N., Eng.-Maj.

TITLE:

Preparation of Radar Bombsight for Bombing (Podgotovka

radiolokatsionnogo pritsela k bombometaniyu)

PERIODICAL: Vestnik Vozdushnogo Flota, 1957, Nr 8, pp. 60-62 (USSR)

ABSTRACT:

In this article the author draws attention to some inadequacies in the preparation of the radar bombsight for bombing and gives some suggestions for the elimination of such inadequacies prior to the flight. The author states that at one time in their unit there were frequent cases of maladjustments and loss of calibration of the radar bombsight in the air, which caused poor results in bombing accuracy. For instance, because of systematic irregularities in the operation of frequency dividers 5:1 and 6:1, there appeared time flutter ["sektoreniye" razvertki], doubling of range marks and image, disruption of limitation of scanning [sryvy ogranicheniya razvertki] because of the maladjustment of its amplitude and duration. After a thorough investigation it was found that the systematic irregularities in the operation of the bombsight occurred because of poor preparation of the bombsight for

Card 1/4

86-8-12/22

Preparation of Radar Bombsight for Bombing (Cont.)

synchronous apparatus, must make corrections in the knob setting of the potentiometer "zero altitude" according to the main pulse. Because of the above mentioned measures, the extensive bomb deviations in range were eliminated. Incorrect setting of other control units may also cause irregularities in the operation of the bombsight. The experience gained by navigators had shown that the present procedure of checking and adjusting the automatic selector of the synchronous apparatus at slant ranges ND = 20 km (H = 10 km and γ = 60°) or ND = 28 km (H = 14 km and $\varphi = 60^{\circ}$) lowers the efficiency of the bombsight. Actually, the slant range at which the automatic selector operates is always greater than 28 km. Therefore, the navigators in the author's unit check and adjust the change over from one condition of operation to another for H = 14 km at $\gamma = 72^{\circ}$, that is, at the slant range equal to 43 km. In order to improve the bombing results, an error of + 50 m is tolerated in the slant range. The range is calibrated at ND = 10 km and ND = 30 km (at \mathscr{G} = 0° and \mathscr{G} = 70°), and it is mandatory to check at ND = 20, 16, and 14 km (\mathscr{G} is equal to 60°, 50°, and 40°, respectively).

Card 3/4

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00050982

VYDOV, A.N.

ALEKSKE NO

AUTHORS:

64-1-4/19 Rogovin, Z. A., Davydov, A. N., Tsarfin, Ya. A.

Morozova, N. V. Yerokhina, V. G.

TITLE:

Rapid Method for the Acetylation of Cellulose in a Homoge=

neous Medium

(Bystryy metod atsetilirovaniya tsellyulozy v gomogennoy

srede)

PERIODICAL:

Khimicheskaya Promyshlennosti, 1958, Nr 1, pp. 17-20 (USSR).

ABSTRACT:

The cellulose acetylations which have hitherto been carried out in plants took from 8 - 12 hours. Therefore it was necessary to find a method of shorter duration. In the present paper a rapid method is suggested which refers among other things to some proposals of Thomas (reference 3) as being superfluous, so e.g. a pretreatment of cellulose with concentrated urea solution. The usual activation with glacial acetic acid at 60°C for 30 minutes is sufficient. Investigations of the influence of the acetyla= tion temperature showed that a temperature of 70°C is not to be surpassed and that with a quantity of 0,3 percentages by weight of sulfuric acid as catalyst at 80°C the triacetylcellulose can

Card 1/3

be obtained within from 20 - 30 minutes. In order to obtain

Rapid Method for the Acetylation of Cellulose in a Homogeneous Medium

64-1-4/19

triacetylcellulose with sufficiently high molecular weight special attention must be paid to the composition of the mixture to be acetylated. Experimental results show that the decomposition of the obtained acetylcellulose is proportional to the added quantity of acetic acid, on the other hand, however, the procedure becomes too expensive in the case of an increase' addition of acetic anhydride, except the product is isolated in an arid medium so that no hydrolysis of the anhydride can occur. On the strength of various investigations a mixture of 50 - 60° /o of acetic anhydride and of $50 - 40^{\circ}$ /o of acetic acid was found to be the optimum condition. In in= vestigations of the catalyst quantity and its character it was found that the quantity must be reduced at increased temperature (from 1 - 1.5% to 0,3% in the case of sulfuric acid), aniline sulfate (0,6 percentages by weight) is assumed to be a better catalyst than the ammonium sulfate suggested by Thomas. The investigations are carried on in order to test them in the industrial scale and to obtain a further reduction of the acetic an= hydride quantity. There are 3 tables, and 3 references, 2 of which are Slavic.

Card 2/3

Rapid Method for the Acetylation of Cellulose in a Homogeneous Medium

64-1-4/19

ASSOCIATION: Laboratory of the NIIPP at the Chemical Plant, Vladimir (Laboratoriya NIIPP na Vladimirskom khimicheskom zavode)

Library of Congress. AVAILABLE?

1. Cellulose-Acetylation

Card 3/3

Makes 1 DONE EXTINITIONS (Springers and production of the producti	DA	7 V y	Do	5V,	A. N	4		4 12200	STRANCE BE EX		16660	S=(B)E=	STE KOT		1 500	English	(4) (5) (5)	
	KPLOUTATION	We'll's, and B' B' Exclarate, Bess, eds, seasoned, its production attractichesingo's mers for the Froduction of Arribetic Mobel's P. Arrels ally inserted. 1,500 copies prin	48 Condaratemeny konites Sowie Alaistrov 2332. - Christianichi I Villag. - Sowi Jean Jean Li, Li, Lanian.	FURNIE: This bost is intended for ententists, engineers, and technicises we ing in the synthetic rubber, plastics, and privates refining industries, as a setsebility industries, as	 COTAMAGE: The book somaics switcles which report on research carried out at Sensities testificated; larky state the singerful describe benchmarks 8.7 Lebelow (Scientific Research Institute for Synthetic Rober; leanning Annales Singer Conference Singer Conference Institute Conference Inst	(State Set maintie Research and Design Institute or the Synthetic Rabber 13- Set at the springers of Appress, styrons, services services. Set where initial products for synthetic rabber production. The servicines the server of the services of the services of the services of the services.	Salt of courses:	ocarbons by Characters Copper.	 m, i.M., V.M. Vingradom, and T.M. Incoming. Apparetion of Mass weekens by Chestocytics Hith Weise-Cycline Solutions of Mile of which Copper, Apper Nr. Bepareties of Income Vith Captron Analots Lies and the Antifestin of Metromobous Pres Pythias			"Mart ymnows, Zs.V., and Z.Z. Semis. Separation of Sydrocarbons and Other Impurities from a Condensate by the Extraction Method	Morotherich, B.S., Shudgil, N.Y., Letondon, M.J., Chanov, and M.P., Theoretic. Development of an Industrial Nethod of Producing of Afethy. Biyrene by the Dehydrogenetion of Isopropyl Senson in an Adiabatic Reactor 162	Shakalor, V.P., and L.A., Falthanora. Catalytic Dehydrogenation of Stayl Denisons into Styrose. Neport I.		ğ		b 1
		- 194	·						 ·	*******		·			······································	<u>'}'</u>		****
and the state of t				<u>;</u>			•			1								

and the executive state of the state of the

DAVYDOV, A.N.; KIRIYENKO, G.I.; PILIP, Ya.A.

New data on the geological structure of the Kushka region. Izv.
AN Turk. SSR.Ser. fiz.-tekh., khim. i geol.nauk no.6:53-59 '63.

(MIRA 18:1)

DAVYDOV, Aleksandr Pavlovich; SMOLYAROV, L.G., red.; ZABRODINA, A.A., tekhn.

[Rubber bearings for hydraulic turbines] Rezinovye podshipniki dlia gidroturbin. Moskva, Gos. energ. izd-vo, 1958. 130 p. (MIRA 11:9)
(Bearings (Machinery)) (Hydraulic turbines)

DAVYDOV, Aleksey Petrovich; KATSNEL'SON, S.M., red.; ATROSHCHENKO, L.Ye., tekhn.red.

[Inventors and efficiency promoters are fighters for technological progress] Izobretateli i ratsionalisatory - bortsy za tekhni-cheskii progress. Moskva, Izd-vo "Znanie," 1960. 47 p. (Vaesoiusnoe obshchestvo po rasprostraneniiu politicheskikh i nauchnykh snanii. Ser.5, Sel'skoe khosiaistvo, no.14).

(MIRA 13:7)

1. Nachal'nik otdela izobretatel'stva i ratsionalizatsii Ministerstva sel'skogo khosyaystva SSSR (for Davydov).

(Agricultural machinery)

BOYKO, A.A., red.; CDAYYDOY, A.P., red.; POLYAKOV, A.A., prof., red.; SOKOLOVA, L.M., vetvrach, red.; YARNYKH, V.S., kand. veterinarnykh nauk, red.; KULICHENKO, V.S., red.; MALOVA, L.I., red.; PECHENKIN, I.V., tekhn. red.

THE TAX TO A TOO WEST CONTINUED OF THE PROPERTY OF THE POST OF THE

[Invention and innovation in veterinary medicine; materials of the First All-Union Conference, 1958] Isobretatel'stvo i rationalizatsiia v veterinarii; materialy Vsesciuznogo soveshchaniia isobretatelei i ratsionalizatorov v oblasti veterinarii. 1st, 1958. Moskva, Izd-vo M-va sel'khoz. SSSR, 1960. 188 p. (MIRA 14:5)

1. Vsesoyuznoye soveshchaniye izobretateley i ratsionalizatorov v oblasti veterinarii. lst. 1958. 2. Nachal'nik Glavnogo upravleniya veterinarii, chlen kollegii Ministerstva sel'akogo khozyaystva SSSR (for Boyko) 3. Nachal'nik otdela po izobretatel'stvu i ratsionalizatsii Ministerstva sel'skogo khozyaystva SSSR. (for Baydov). 4. Direktor Vsesoyuznogo nauchno-issledovatel'skogo instituta veterinarnoy sanitarii (for Polyakov). 5. Glavnoye upravleniye veterinarii Ministerstva sel'skogo khozyaystva SSSR (for Sokolova). 6. Zaveduyushchiy laboratoriyey mekhanizatsii Vsesoyuznogo nauchno-issledovatel'skogo instituta veterinarnoy sanitarii (for Yarnykh) (Veterinary medicine--Congresses)

DAVYDOV, H.S.

Subject

: USSR/Electricity

AID P - 1168

Card 1/1

Pub. 29 - 21/31

Author

Davydov, A. S.

Title

Protecting locomobile boilers from scale formation

(Letters from readers)

Periodical

: Energetik, 11, 34, N 1954.

Abstract

In reply to a question from a reader, the author briefly enumerates methods of preventing scale formation.

Institution:

None

Submitted

: No date

DAVYDOV, A.S.

AID P - 1175

Subject : USSR/Electricity

Card 1/1 Pub. 29 - 28/31

Author

: Davydov, A. S.

Title

: Measures of preventing the tightness of fitting fire-

tubes of locomobile boilers. (Letters from readers)

Periodical: Energetik, 11, 37-38, N 1954

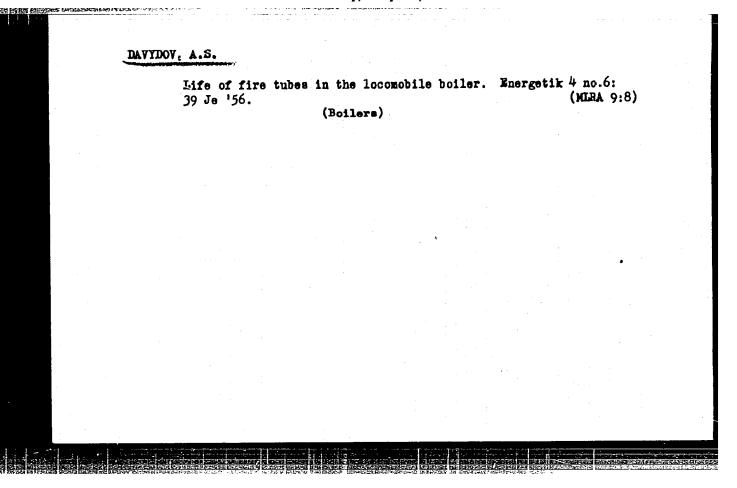
Abstract

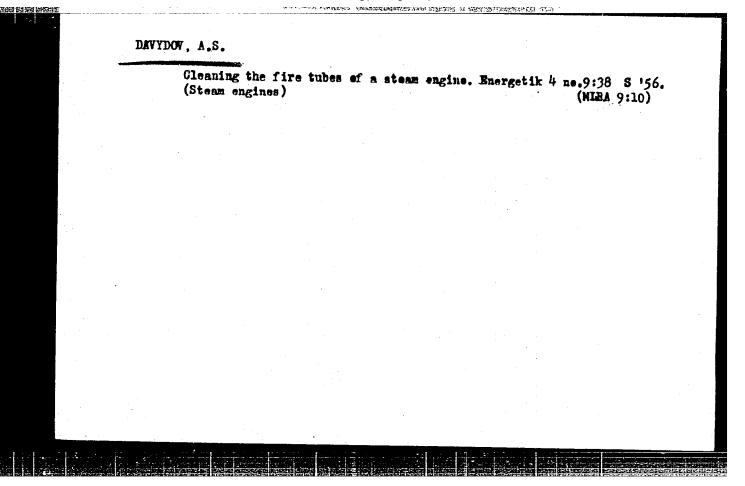
: In reply to a question from a reader, the author gives a brief explanation of causes of damage to fire-tube boilers

and enumerates methods of prevention.

Institution: None

Submitted : No date

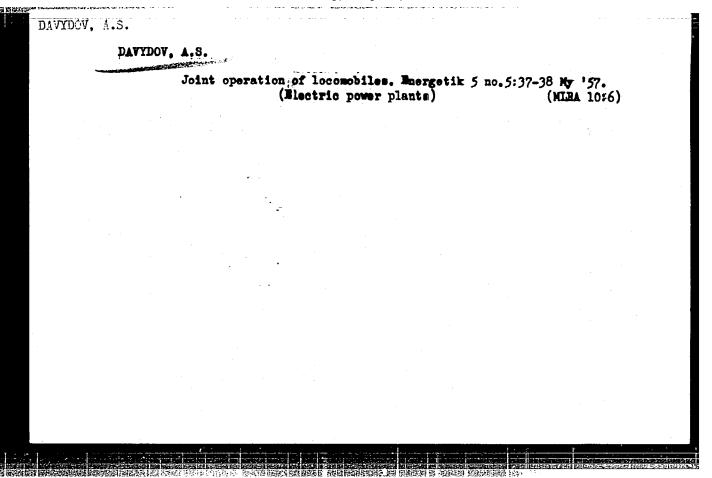




DAVYDOV, A.S., ingh.; TVERITINOV, A.Ye., ingh.

Stationary 160 hp diesel generator. Mekh. 1 clek.sots.sel'khoz.
no.5:41-44 '56. (MIRA 12:4)

1. Ministerstvo sel'skogo khozyaystva SSSR.
(Blectric generators)



DRIYDON, A.S.

AUTHOR TITLE

DAVYDOV, A.S.

121-7-3/26

TITLE

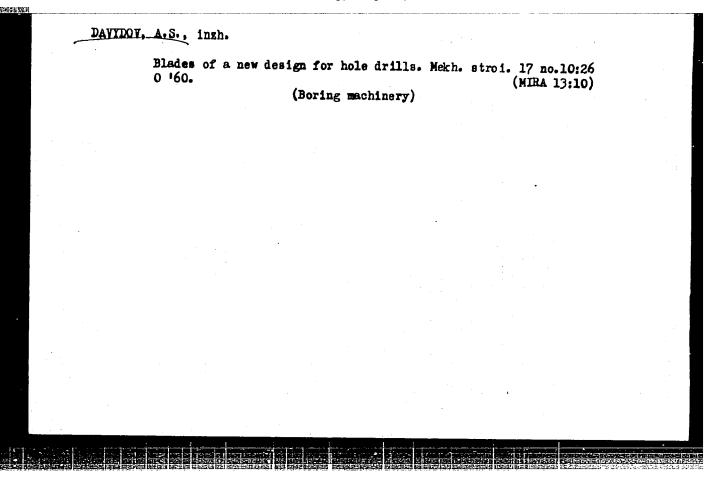
The Electric Contact Machining of Metals.

(Elektrokontaktnaya obrabotka metallov -Russian)

PERIODICAL ABSTRACT Stanki i Instrument, 1957, Vol 28, Nr 7, pp 6 - 9 (U.S.S.R.)

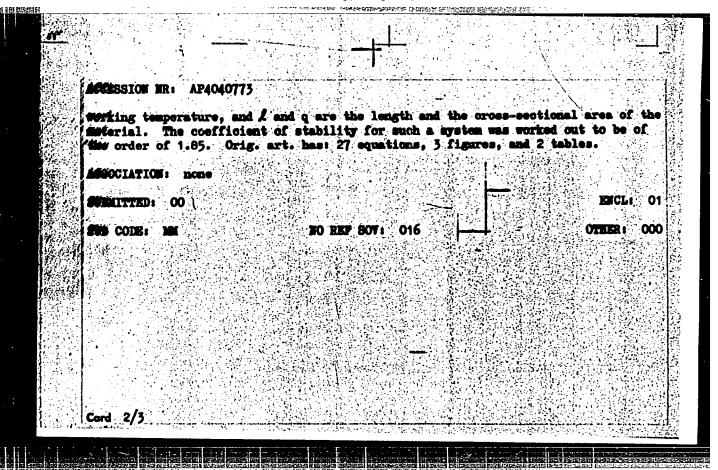
According to the kind of action of the electric current on the workpiece to be worked on and depending upon the form of energy which characterizes the metal decrease, the electric methods of working can be divided into electro-mechanical, electric erosion, electric erosion-chemical- and electro-chemical methods. (Illustration 1). Similarly, the methods can be divided into several groups according to the type of current impulse production. The further description deals with all types of electro erosion working with mechanical impulse generation, which are counted by the author among the electrocontact working processes. Electric contact working can be carried out by means of direct current as well as by alternating current, though, on account of its simplicity, alternating current is preferred. Exact limits of the current voltages are difficult to determined, as they depend upon a whole series of causes: on the thermal-physical properties of the metal or its alloys, heat transition, the presence of pressure between the tool and the work piece, etc. Electric contact working can be carried out at pressures of up to 10-15 kg/cm² as well as with pressure up to 2 kg/cm² and practically also without pressure at all when using of the method of electric remelting. Within the zone of wor-

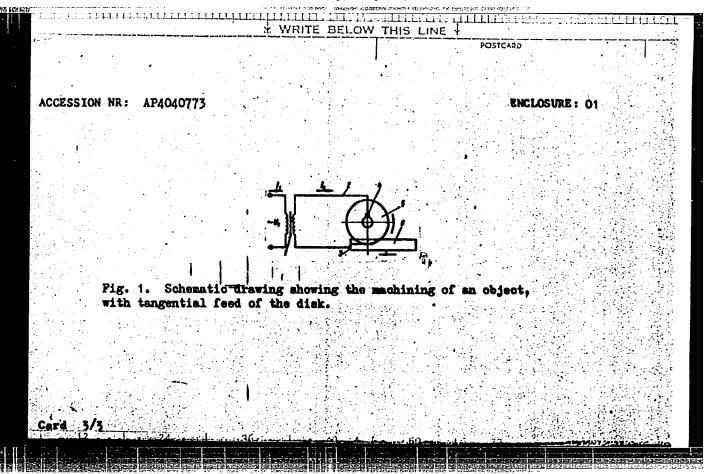
Card 1/2



Collective excitations and the deformability of atomic nuclei. Izv. AN SSSR. Ser. fiz. 28 no.10x1578-1598 0 '64. (MTRA 17:1.2) 1. Kafedra kvantovoy teorii Moskovskogo gosudarstvennogo universiteta.

ALC: N	BURDESCO PAGENCIA
	WRITE BELOW THIS LINE +
	#\$206SION NR: AP4040773
	ADTHOR: Davy*dov, A. S.
	Construction and design of machines for electrocontact machining of metals
	MONICE: Stanki i instrument, no. 6, 1904, 20-29
	positic electric resistance
	presented and shown schematically in Fig. 1 on the Enclosure. Here (1) is a presented and shown schematically in Fig. 1 on the Enclosure. Here (1) is a presented and shown schematically in Fig. 1 on the Enclosure. Here (1) is a presented and shown schematically in Fig. 1 on the Enclosure. Here (1) is a presented and shown transformer (2) a contact terminal, (4) a brush, an electrode, (6) the object to be machined. The rate of removal of the metal the nominal power P ₁ , the total power S ₁ , and the specific energy consumption
	The active resistance of the electrode part of the network is given by $R = a_c r_c$.
5 4	shore mo is the coefficient of skin effect, Pt the specific resistance at the
	(641)3





L 34166-65 EWT(m) Peb DIAAP

ACCESSION NR: AP5005150

\$/0188/65/000/001/0064/0077

AUTHOR: Davydov, A. S.; Rostovskiy, V. S.

76B

TITLE: Electric monopole transitions in monspherical atomic nuclei

SOURCE: Moscow. Universitet. Vestnik. Seriya 3. Fizika, astronomiya, no. 1, 1965, 64-77

TOPIC TAGS: monopole transition, quadrupole transition, electric transition, non-spherical nucleus, energy level, wave function, excited state

ABSTRACT: The purpose of the investigation was to calculate the energy levels, the wave functions, and the probabilities of EO and E2 transitions, for non-spherical even-even atomic nuclei which have axial symmetry in the ground state, with full accounting for the interconnection between collective excitations of different types. It is shown that the wave functions and the relative energies of the excited states, when complete account is taken of the interaction between the rotation and the beta and gamma oscillations, can be expressed in terms of two parameters which characterize the amplitudes of the zero-point beta and gamma

Card 1/2

L 34166-65 ACCESSION NR:	AP5005150	andra de de la companya de la compa		
and E2 transitical results at 1 figure, 34 for	ions are calcula re compared with ormulas, and 2 t	the nucleus. The related as functions of the experiment for a numberables.	se parameters. To cf muclei. Orig	ne theoret- g. art. hes:
(Department of	Electrodynamics	and Quantum Theory, Mos	cow University) SUB CODE:	
alla lietzi bezita, aliterike		with the same bit is to be		42
lir ref soy:		OTHER) 020		elle general de la companya de la co
lir ref soy:		OTHER) 020		

DAVYDOV, A.S., akademik; OVCHARENKO, V.I.

Electric quadrupole transitions between rotary states with large spins in even nuclei. Dokl. AN SSSR 163 no.2;329-331 J1 '65.

(MIRA 18:7)

1. Institut fiziki AN UkrSSR. 2. AN UkrSSR (for Davydov).

DAVYDOV, A.S.; ULITIN, M.N.

State of and prospects for the use of electrophysical methods in working metals. Trakt. i sel'khozmash. nc.9:45-47 S '65.

(MIRA 18:10)

1. Nauchno-issledovatel'skiy institut tekhnologii traktornogo i sel'skokhozyaystvennogo mashinostroyeniya.

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00050982

L 38670-66 EWT(m)/EWP(t)/ETI/EWP(k) IJP(c) JD

ACC NR: AP6016739 SOURCE CODE: UR/0121/66/000/001/0010/0012

AUTHOR: Davydov, A. S.

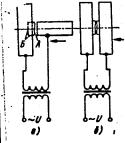
ORG: None

TITLE: Electric contact broaching

SOURCE: Stanki i instrument, no. 1, 1966, 10-20

TOPIC TAGS: metal broaching, electric metal finishing, stainless steel

ABSTRACT: A method is proposed for using electric current through a fixed electrode to dress sprues and to machine blind and through holes in steel components. A diagram of the system is shown in the figure. An installation based on this principle was tested



with a 95 kva step-down transformer having a primary voltage of 380 v and a secondary voltage of 31.5-42 v. It was found that a carbon electrode is practical for this method. Machining was done at an electrode voltage of 12-22.8 v. In some cases a stationary electric arc was observed at voltages close to the upper limit

Fig. 1. a—dressing a sprue and machining a blind hole with a carbon electrode; b—mutual machining of two sprues. A—surface to be machined; 5—finished surfaces.

UDC: 621.9.018.5

DE 17 克斯特拉德 25 期的政治 经联络 电影线 电影线 医多元氏性炎 医多元 经产品 1 ·

Causing localized depressions in the part being machined. The finished surface has a wavy appearance with a wave height of ±1.0 mm. It was also found that the hardness of the heat-affected zone may be reduced to normal by annealing. The relative weight loss for the electrode is 2%. Electrical contact broaching using a carbon electrode may be used for dressing the sprues on castings or ingots of stainless and high-temperature steel which may be machined only with extreme difficulty by other methods. Industrial application of the new technological process requires refinement and expansion of the limits for operational conditions established by laboratory and industrial tests. Orig. art. has: 5 figures, 2 tables. SUB CODE: 13/ SUEM DATE: none/ ORIG REF: 012/ OTH REF: 000

ACC NR: AP7002383

SOURCE CODE: UR/0020/66/171/005/1069/1071

AUTHOR: Davydov, A. S. (Academician AN UkrSSR); Myasnikov, E. N.

ORG: Institute of Physics, Academy of Sciences, UkrSSR (Institut fiziki Akademii nauk UkrSSR)

TITLE: Absorption and dispersion of light upon formation of molecular excitons

SOURCE: AN SSSR. Doklady, v. 171, no. 5, 1966, 1069-1071

TOPIC TAGS: exciton absorption, light absorption, light dispersion, Green function, phonon interaction, refractive index, dielectric constant

ABSTRACT: The authors investigated by the method of temperature retarded Green's functions the shape of the absorption bands and the dispersion of light when excitons are produced in three-dimensional crystals. Account is taken of the interaction with the acoustical and optical phonons. An expression is derived for the dielectric tensor in the region of exciton-absorption frequencies, and the components of this tensor are plotted for different temperatures. The dispersion of the refractive index and of the attenuation coefficient are then determined. The results show that at low temperatures the absorption (the imaginary part of the dielectric constant) has a sharp maximum with a slight structure on the high-frequency side. With increasing temperature, the height of the principal maximum drops and the absorption on the high-frequency side of the principal maximum broadens and becomes more intense. When the interaction with the acoustic phonons is slight, the half-width of the principal

Card 1/2

UDC: 545.342.2

ACC NR: AP7002383

cipal maximum depends on the number of optical phonons present at the given temperature. With increasing interaction with the acoustic phonons, the short-wave part of the principal maximum broadens and becomes more asymmetric. The results are compared with those obtained by others. Orig. art. has: 2 figures and 7 formulas.

SUB CODE: 20/ SUBM DATE: 09Sep66/ ORIG REF: 002/ OTH REF: 004

Card 2/2

